

end surface 14a, which interconnects the inner surface and the outer surface, with the end surface having a first end 14f and a second end 14g; and the caulked portion 14c which extends into the groove from a location that is between the inner surface and the outer surface, with the caulked portion being positioned at a level that is closer to the bottom of the groove than is the level at which the end surface is positioned such that defined in the end surface is a recess 14h which opens into the groove and does not extend completely across the end surface, whereby along an intersection of the end surface and the outer surface the end surface is continuous from the first end to the second end as shown by the outer peripheral side portion 14b.

***Please replace the paragraph beginning at page 18, line, [0052] with the following new paragraph:***

Then, in a tip portion end surface 44a of the side wall 44, and at the central portion thereof, but not at both end portions thereof, in an axial line direction, a portion 44c of the side wall 44, which does not include an outer peripheral side portion 44b of the side wall 44, at the side of the groove 43 is caulked by a cylindrical caulking punch 45 from an opening side of the groove portion 43 to a bottom side thereof, so that the above vibrator 40 is coupled to the rotating shaft 42. Here, as a result of caulking by the cylindrical caulking punch 45, concave caulked portions 44c formed at the tip portion end surfaces 44a, respectively, become substantially semi-circular, and are formed so that a length dimension L in the axial line direction at the side of the groove portion 43 (i.e. a first side of a recess 44d defined by caulked portion 44c) becomes larger than a length dimension at an outer peripheral side of the concave caulked portions 44c (i.e. a second side of the recess 44d) .